

## SPECIAL SERVICE LETTER NO. 106

MODEL: "400" Series Machines      DATE: 3-11-49  
SUBJECT: Red Print Feature

Contained herein are instructions covering installation of the Red Print Special Feature Mechanism in "400" series adding-listing machines. A listing of red print features together with list prices is contained in General Notice No. 41 of March 2, 1949.

TO INSTALL

Remove cover case, keyboard, carriage and ribbon.

Insert hand crank (Kit Tool #162. See Machine Service Bulletin No. 450-A).

Operate the machine to its full forward position then remove retainers from ribbon guide pivot rod (E) and withdraw rod (E) to the left to remove from machine.

Remove retainers from both ends of hammer pivot rod (F).

Move hammer pivot rod (F) to the right and extract left-hand ribbon guide, its links and cam from machine.

Position the hammer pivot rod (F) sufficiently to the left to remove the right-hand ribbon guide, its links and cam from machine.

Install the ribbon guide shift bail (G) by first placing its operating hook between hammer section operating arm (P) and hammer section end plate. Reinstall right-hand ribbon guide, its links and cam.

Move the hammer pivot rod (F) sufficiently to the right to assemble the left side of ribbon guide shift bail (G). Assemble left-hand ribbon guide, its links and cam to the pivot rod (F). Move pivot rod (F) to original position.

Assemble the ribbon guide pivot rod (E) into upper holes (B) of ribbon guides (D) and through holes in ribbon guide shift bail (G).

Re-install retainers on rods (E) and (F) and check ribbon guide shift bail (G) and its operating hook for free movement.

Connect spring (H) into lower hole (J) of left-hand ribbon guide and onto set screw in collar for platen spacing bail.

~~Remove the first two operating slide upper retaining shafts. Disconnect operating slide spring and remove operating slide.~~

~~Disconnect springs from flipper control slide and total trip slide. (This will help keep slides in location when control slide guides are removed).~~

~~Remove the two upper control slide guides. Remove character slide (Slide (HH), Inset 2, W.R.G. 8, Machine Service Bulletin No. 450.)~~

Assemble special blocking extension (Y) to new character slide (Q) with screw (AA) and nuts (Z). Then install slide (Q) into machine. (Extension shown as (Y) is for Special Feature 408).

SPECIAL SERVICE LETTER NO. 106

Re-install control slide guides, operating slide and operating slide retaining shafts. Connect springs on flipper control slide, total trip slide and operating slide.

Place right-hand end of ribbon red print selector (X) into slot of bracket (W) and assemble this bracket to right side frame with screws (T), lock washers (U), and nuts (V).

Assemble the ribbon shift selector (K) to the stud on ribbon feed slide (A) with retaining clip (L).

Assemble ribbon selectors (X) and (K) with screws, lock washers and nuts (S) as shown.

Connect spring (R) into hole of ribbon shift selector (X) and hole (M) in ribbon feed slide (A). Attach spring (N) into hole of hook on bail (G) (as shown) and front upper hole in hammer section end plate.

Install red and black ribbon (C).

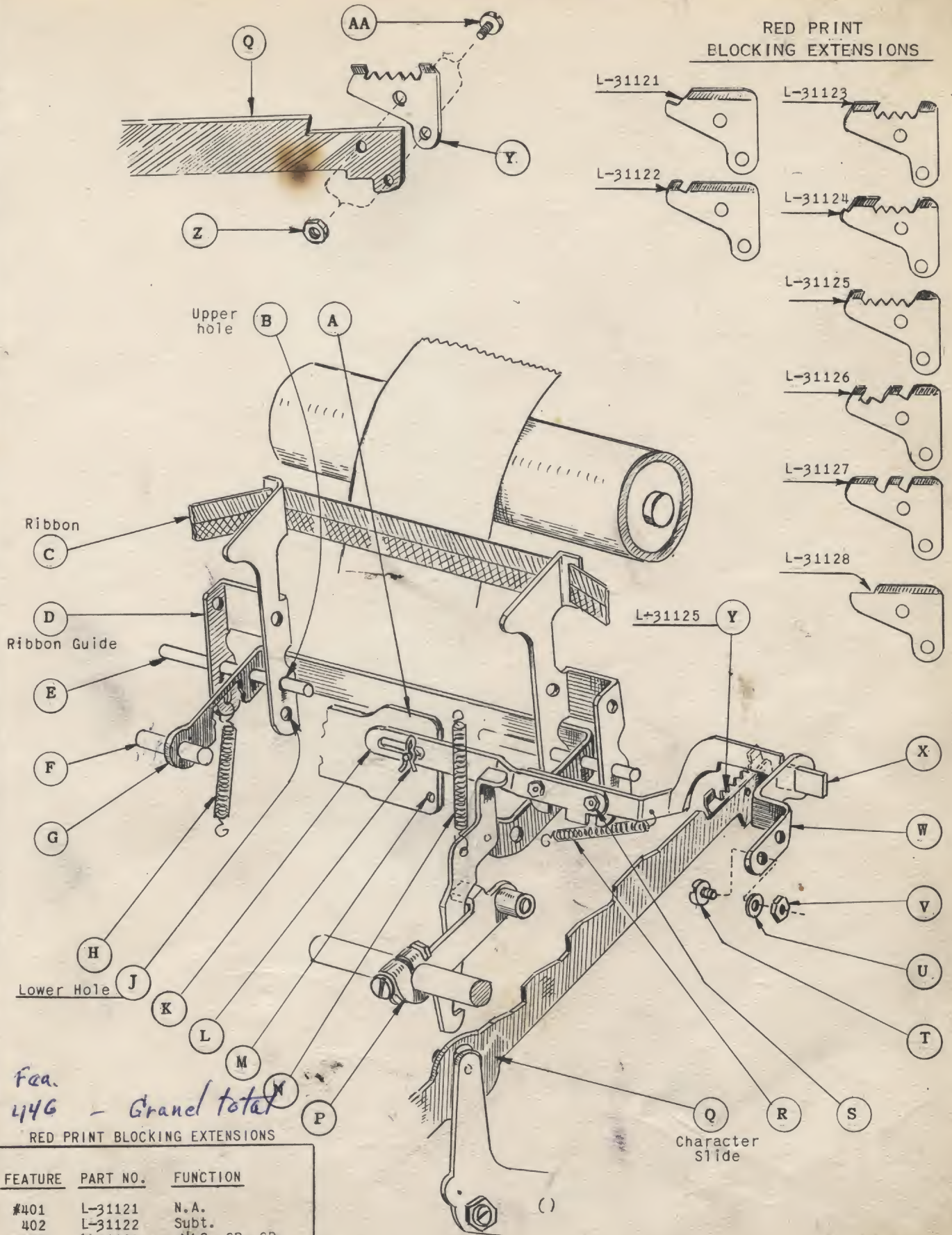
Adjust ribbon selector (X) by loosening nuts (S) and moving (X) to the right so that it clears character slide (Q) before (Q) begins to restore at start of the machine return cycle on all red print operations. This should be tested by slowly operating the machine with hand crank. (If adjusted otherwise, the character slide (Q) may jam on selector (X) and cause the character rack arm to become bent). It may be necessary to bend bracket (X) in order to obtain clearance between ribbon shift selector (X) and the special blanks (Y) of character slide (Q) during red print operation.

CAUTION: The basic machine adjustments must not be changed in order to obtain the proper operation of the red print feature.

Remove hand crank and reassemble carriage, keyboard and cover case.

  
GENERAL SERVICE MANAGER  
ORANGE, N. J.

**RED PRINT  
BLOCKING EXTENSIONS**



**RED PRINT BLOCKING EXTENSIONS**

FEATURE	PART NO.	FUNCTION
401	L-31121	N.A.
402	L-31122	Subt.
403	L-31123	* S, CR, CR
406	L-31124	N.A., * S, CR, CR
408	L-31125	Subt., * S, CR, CR
407	L-31126	Subt., CR, CR
404	L-31127	CR, CR
405	L-31128	N.A., Subt.